

PATENT ABSTRACTS OF JAPAN

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(54) LASER TRIMMING APPARATUS

(57)Abstract:

PURPOSE: To prevent the insulation of an element to be trimmed from deteriorating by removing a laser light of a laser of power more than required by a shutter, and then operating a pulse light of normal power onto a substrate to trim it.

CONSTITUTION: A laser trimming apparatus has a laser oscillator 1, a shutter 4 for shielding the pulse light 2 of a laser provided in the midway of a laser light passage to a beam positioner, a shutter controller 5 for telescoping the shutter 4 on the pulse optical axis of the laser, and a laser controller 6. When trimming, the shutter 4 mounted in the controller 5 is controlled by a control signal from the controller 6, the pulse light 2 of the laser from the oscillator 1 is shielded at the order counted several pulses from the initial pulse light from the start of emitting to a substrate 7 first in the state that the shutter 4 is closed, the shutter 4 is opened by a control signal from the controller 6, and the light 2 is emitted onto the substrate 7 for trimming.



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